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[REDACTED]-50456/67  
18 December 1967

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MEMORANDUM FOR: Chief, Information Processing Division, NPIC

ATTENTION: [REDACTED]

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THROUGH: Chief, Technical Intelligence Division, NPIC

SUBJECT: Type IV (118A) System Math Model

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1. The TID/SIEB has been performing measurements on the survey controlled range at [REDACTED] (imaged on Type IV camera system test missions) to determine the accuracy of the system math model (Model IV). The results have not been accurate because the final orientation matrix is in error.

2. To improve the orientation matrix a new approach has been formulated. The method is to apply the mirror reflection equation to determine the matrix M to replace the matrix M0 in Model 4. The attachment provides the mathematics for the new equations and two methods for determining IMC. Also included are some results of SIEB's test.

3. SIEB requests changes be made in Model 4 using Method 2 as outlined in the following attachment.

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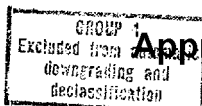
[REDACTED]  
Chief, Systems and Image Evaluation Branch,  
TID/NPIC

Attachment: Type IV (118A) System Math Model

Distribution:

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